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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/980,727	07/08/2002	Hubert Rein	228.1010	8812
23280	7590 04/05/2005	EXAMINER		
DAVIDSON, DAVIDSON & KAPPEL, LLC 485 SEVENTH AVENUE, 14TH FLOOR			OH, SIMON J	
	TH AVENUE, 14TH FLOC K, NY 10018	OK.	ART UNIT PAPER NUMBER	
			1615	
			DATE MAILED: 04/05/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)				
		09/980,727	Applicant(s) REIN ET AL.				
Office Action Summary		Examiner	Art Unit				
	•	Simon J. Oh	1615				
	The MAILING DATE of this communication a		<u> </u>				
Period fo							
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REF MAILING DATE OF THIS COMMUNICATION nsions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a representation of the provision of the	I. 1.136(a). In no event, however, may a reply be tined things of the statutory minimum of thirty (30) day of will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status			•				
1) 🏹	Responsive to communication(s) filed on 11	March 2005.					
	This action is FINAL . 2b)⊠ This action is non-final.						
3)	,						
٠,١	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
.	·						
	ion of Claims						
4)⊠	Claim(s) 1-6,10,16-18 and 20-32 is/are pending in the application.						
_	4a) Of the above claim(s) is/are withd	rawn from consideration.					
· · · · ·	Claim(s) is/are allowed.						
6)⊠	Claim(s) <u>1-6,10,16-18 and 20-32</u> is/are rejected.						
7)							
8)	8) Claim(s) are subject to restriction and/or election requirement.						
Applicat	ion Papers						
9)☐ The specification is objected to by the Examiner.							
10)	10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)	The oath or declaration is objected to by the	Examiner. Note the attached Office	Action or form PTO-152.				
Priority (under 35 U.S.C. § 119						
	-	an markhi undar 25 H C C S 440(c)) (d) on (6)				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:							
a)ı	1. Certified copies of the priority documents have been received.						
	Certified copies of the priority docume Certified copies of the priority docume		on No				
	3. Copies of the certified copies of the pr	• •					
	application from the International Bure	•	ou in this i tallottal Otago				
* 5	* See the attached detailed Office action for a list of the certified copies not received.						
Attachmon	t(e)						
_	Attachment(s) 1) ☑ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 r No(s)/Mail Date	8) 5)	atent Application (PTO-152)				

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

DETAILED ACTION

Papers Received

Receipt is acknowledged of the applicant's amendment, response, petition for extension of time, request for continued examination, and change in power of attorney, all received on 11 March 2005.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 1-6, 10, 16-18, and 20-32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lentz et al. (PCT Publication No. WO 92/15285)

The Lentz et al. document discloses controlled-release starch compositions (See Abstract). The compositions comprise a melt made from a starch/water mixture and an active ingredient. The starch is processed in such a way as to eliminate a granular starch structure, rendering it "destructured", which can include heating the starch melt above the glass transition temperature (See Page 11, Line 8 to Page 12, Line 30; and Page 17, Line 34 to Page 18, Line 15). This composition is processed under shear at temperatures ranging from about 80°C to about 24°C (See Abstract). This allows for greater compressibility in the formation of tablets (See Page 15, Lines 8-14). Various types of drugs, either water-soluble or -insoluble, may be incorporated into the disclosed controlled-release starch matrices (See Page 15, Line 25 to Page 16, Line 39). Various types of dosage forms, including tablets, capsules, beads, granules,

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powders, and solids may be formulated from the compositions. Processing techniques that may be used to produce such dosage forms include wet and dry granulation, injection molding, thermoforming, extrusion, co-extrusion, and cast molding (See Page 26, Line 29 to Page 27, Line 21). Release profiles are given which show the release of an active ingredient over a period of 24 hours. The release profile of the active ingredient appears to follow a lapidus function (See Figures 2 & 3).

Although the disclosed release profiles only show drug release up to a period of 24 hours, the amount of drug released in some figures remain under 100%. It is the position of the examiner that drug release can continue beyond 24 hours and that this release profile is due to the insolubility of the amorphous starch matrix. Thus, the instantly claimed invention is *prima* facie obvious.

Response to Arguments

Applicant's arguments filed 11 March 2005 have been fully considered but they are not persuasive.

The examiner does not interpret the prior art as being solely limited to what has been disclosed in the examples of the Lentz *et al.* reference. The examiner must take the broadest reasonable interpretation of both the claims and the prior art. It is the position of the examiner that one of ordinary skill in the art, giving both the prior art and the claims in their present form their broadest reasonable interpretation, would find the claimed invention obvious in view of the prior art. See MPEP § 2111 and 2123. The examiner must also consider what has been taught by the prior art apart from what is only disclosed in given examples. The Lentz *et al.* reference

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has disclosed the use of co-extrusion as a method of manufacture, as well as a level of destruct-

urization beyond the glass transition temperature of the ingredients. As such, all pending claims

are presently rejected.

Correspondence

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Simon J. Oh whose telephone number is (571) 272-0599. The

examiner can normally be reached on M-F 8:30 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Thurman K. Page can be reached on (571) 272-0602. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Simon J. Oh Examiner

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